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DATE MAILED: 06/15/2006

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,301 03/29/2004		03/29/2004	Yoram Palti	26081	8266
20529	7590	06/15/2006		EXAMINER	
NATH & AS	SSOCIA	TES	WOJCIECHOWICZ, EDWARD JOSEPH		
112 South West Street Alexandria, VA 22314				ART UNIT	PAPER NUMBER
				2815	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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	tion Summary Par	t of Paper No./Mail Date 20060612					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date U.S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						
 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex Priority under 35 U.S.C. § 119	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Application Papers 9) The specification is objected to by the Examine	r						
8) Claim(s) are subject to restriction and/o	r election requirement.						
7) Claim(s) is/are objected to.	•						
6)⊠ Claim(s) <u>44-48 and 50-61</u> is/are rejected.	5) Claim(s) is/are allowed. 6) Claim(s) 44-48 and 50-61 is/are rejected.						
4a) Of the above claim(s) <u>1-43 and 62-78</u> is/are withdrawn from consideration.							
4)⊠ Claim(s) <u>1-48 and 50-78</u> is/are pending in the application.							
Disposition of Claims	•						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
_	1)⊠ Responsive to communication(s) filed on <u>04 April 2006</u> . 2a)□ This action is FINAL . 2b)⊠ This action is non-final.						
Status	'						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
A SHORTENED STATISTORY DEPLOD FOR DEDLY IS SET TO EXPIRE 2 MONTH/S) OR THIRTY (20) DAYS							
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
,	Examiner Edward Wojciechowicz	Art Unit					
Office Action Summary	10/811,301	PALTI, YORAM					
	Application No.	Applicant(s)					

Application/Control Number: 10/811,301

Art Unit: 2815

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 44-48 and 50-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kemeny, of record, in view of Kosaki et al (2001/0028113). The reference to Kemeny teaches the basic structure of forming a semiconductor device having a perforation extending along a central axis thereby defining a channel inside the element. In addition, Kemeny may also form device regions on the inner surface of the perforation, as stated in the previous action. While Kemeny shows most of the external contacts formed on the outer sides of the cylindrical member, he nevertheless also teaches that the use of conventional leads, wire bonding and packaging are also an option (col. 3, I. 55). Such conventional lead configurations would likely utilize the butt-end surfaces for additional contacts.

Kosaki is cited to show that this approach would be known in the art. See, for example, FIG. 5 of Kosaki, where contact (2) is formed on the butt-end of a semiconductor element utilizing an axial perforation, as claimed. Given Kemeny's disclosure that such conventional contact arrangements would also be applicable in his perforated structure, one skilled in the art would be motivated to combine these features so as to achieve greater flexibility in mounting such structures.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2815

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew